



This commemorative publication, to mark the 50th Anniversary of the “Karlsruher Nuklidkarte”, provides a broad, state of the art overview of scientific research in the nuclear sciences. In total there are 30 scientific articles written by experts in their various fields together with the historical Nobel lectures by Becquerel and Soddy. The chapters are arranged as follows:

- history
- experimental developments
- quarks and strong interaction
- beta decay and neutrinos
- nuclides and radioactivity
- nuclear data
- biophysics and medical applications
- dating and nuclear forensics

Articles cover fundamental and theoretical aspects of nuclear physics and chemistry including the discovery of new elements and decay modes, neutrinos, quarks, antimatter, and dark matter. Technological developments are described in a series of articles ranging from space radiation biophysics and health care to archaeological dating, forensics and cultural heritage.

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Commemoration of the 50<sup>th</sup> Anniversary

Karlsruher Nuklidkarte

Editors: G. Pfennig, C. Normand,  
J. Magill, Th. Fanghänel

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Commemoration of the 50<sup>th</sup> Anniversary

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1958

2008



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Articles range from fundamental and theoretical aspects of nuclear physics and chemistry through experimental developments and new radioactive decay modes to applications in such diverse areas.

## FURTHER INFORMATION

can be obtained from the following websites:

<http://www.karlsruhenuclidechart.net>

<http://www.nucleonica.net>

Or from

European Commission—Joint Research Centre (JRC)

Institute for Transuranium Elements (ITU)

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## Order Details

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